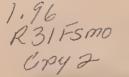
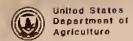
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Sell Conservation Service

Montene Agricultural Experiment Stetion

Bozemen, Montane

MONTANA WATER SUPPLY OUTLOOK

Snowpack and Streamflow Forecasts as of March 1,1985



The Montana Water Supply Outlook is a publication of the U.S. Soil Conservation Service. The SCS administers the Cooperative Snow Survey Program in cooperation with other federal, state and private agencies, organizations, and individuals.

The report is prepared by SCS, Snow Survey and Water Supply Forecast Staff, Room 443, Federal Building, 10 East Babcock, Bozeman, Montana.

Montana streamflows

may be below average

West of the Divide, all drainages above Missoula are expected to have below average runoff. The streams flowing into the Clark Fork downstream from Missoula and all of those in the Flathead and Kootenai River drainages should have near to a little below average streamflows.

East of the Divide, streams in the Missouri River headwaters and the main stem of the Missouri are forecast to have below average runoff this spring and summer.

Streamflows on tributaries north of the Missouri River and those in central Montana are predicted to be near to a little below average.

Runoff in the St. Mary's River basin should also be near average.

Below average runoff can be expected for all streams in the Yellowstone River drainage. UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
SNOW SURVEY UNIT

Federal Bidg., Rm. 443 10 East Bebook Street Bozemen, MT 59715

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Administration proposes ending snow surveys

The President's 1986 budget request to Congress calls for termination of the Snow Survey and Water Supply Forecast activity within the U.S. Soil Conservation Service for fiscal policy reasons. If the President's budget request is enacted by Congress the snow survey program will be eliminated by the end of fiscal year 1986. This action would conclude over 50 years of federally coordinated and supported snow survey effort in the Western United States.

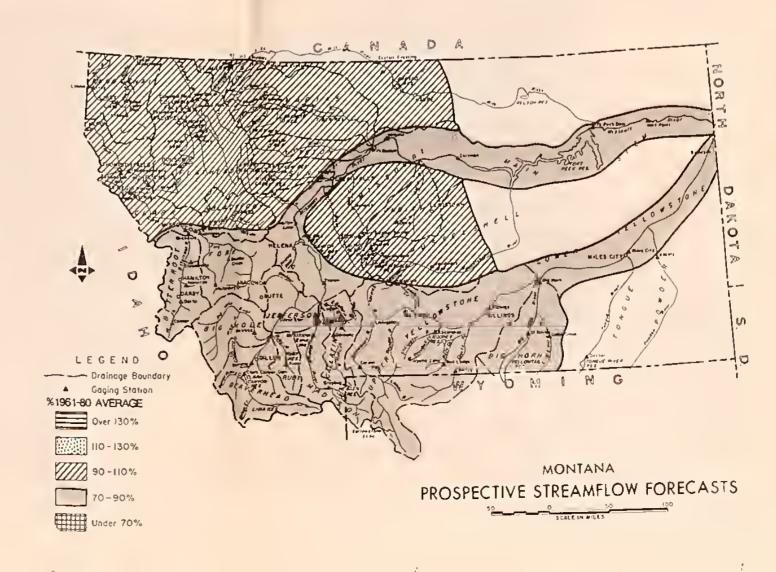
Snowpack generally below average

The snowpack in the mountain headwaters in the northern half of the state is generally near average. The southern half has below to well below average snow cover.

The only area showing above average snowpack is the Bear Paw Mountains near Havre.

Well below average snow water content exists in the Rock, Flint, and Boulder Creek areas near Philipsburg, the Bridger Range near Bozeman and the lower Rock and lower Clark's Fork River areas near Red Lodge.

Snowpack is below average over most of the other drainages in the southern half of Montana.



Missouri River & Hudson Bay Drainages

STREAMFLOW FORECASTS	7105	YEAR	Patr	HLCORG	THIS Y	545		
	FORE	CAST	THOUSAND	ACRE PEFT	FOREC			T RECORD
BASIN, STREAM and/or FORECAST POINT	Thousand Adva Fees	Process of Avelage	Lantes	WINISH ACLE		Percent of Average	Les se	A-ses
PERIO		APRIL -	SEPTEMB	R			- JULY	
					J			
REO ROCK RIVER near Monida (1)	92.0	89	244	103	86.0	89	212	96.3
BEAVERHEAD RIVER near Grant (2)	136	96	435	158	122	89	337	137
BEAVERHEAD RIVER at Barratts (2)	190	86		209	159	88		180
RUBY RIVER near Alder	87.5	86		101	73.5	86		84.6
BIG HOLE RIVER near Helrose	692	90		760	630	90		698
WILLOW CREEK near Harrison	16.6	83		20.0	15.0	84		17.8
MADISON RIVER near Gravling (3)	415	84	57\$	496	330	95	440	398
MADISON RIVER near McAllister (4)	705	83	1:114	848	570	95	87.4	672
CALLATIN RIVER near Cateway	459	84		545	390	84	• • •	464
SUK OF EAST+MEST FORKS HYALITE CR. or Bozeman (5)	23.0	92		28.0	19.5	91		24.2
HYALITE CREEK near Sozeman (6)	37.2	83		44.8	32.0	83		38.7
GALLATIN RIVER at Logan	485	79		611	415	79		523
MISSOURI RIVER at Toston (7)	2:125	84	3+827	2:545	1,890	86	3,179	2:196
SHEEP CREEK near White Sulphur Springs	19.8	91		21.8	17.5	92	0,111	19.0
SUN RIVER at Gibson Oam (8)	535	94	336	570	490	94	296	522
BELT CREEK near Monarch	125	93		134	116	94		123
MISSOURI RIVER at Fort Benton (9)	3,300	83		3,780	2,980	86		3,468
THO MEDICINE CREEK near Browning (10)	235	95		249	225	96		235
BADGER CREEK near Browning	121	93		130	105	93		113
INFLOW SHIFT RESERVOIR near Dupuyer	81.5	94		86.7	71.0	95		74.7
CUT BANK CREEK at Cut Bank	109	96		114	100	93		108
MARIAS RIVER near Shelby	509	94		542	477	92		519
MISSOURI RIVER at Virgelie (ii)	3,875	85		4,570	3,465	86		4:030
MISSOURI RIVER near Landusky (11)	4 • 295	86		4,980	3,770	86		4,383
NORTH FORK MUSSELSHELL RIVER near Delpine	6.0	94		6.4	5.1	95		5.4
SOUTH FORK KNSSELSHELL RIVER above Martinsdale	57.5	92		62.8	54.7	93		58.9
MISSOURI RIVER below Fort Peck Oam (11)	4:200	85		4,961	3,810	86		4,428
MILK RIVER at Eastern Crossing (March-Sept.)	103	95		109				
MILK RIVER at Eastern Crossing (12) (March-Sept.) .	272	98		279				
INFLOW LAKE SAKAKANEA, NO (11)	10:715	84		12,755	10,500	86		12,239
RASKATCHENAN RIVER BASIN								
SMIFTEURRENT CREEK at Sherburne (13)	130	102	102	129	113	101	87.4	112
ST. MARY'S RIVER near Babb (13)	490	101	102	497	415	100	ψ, , ,	416

(1)	Adjusted	for	storage	in	Lima	

- Reservoir.
 (2) Adjusted for storage in Lims and
- Ciark Canyon Reservoirs.

 (3) Adjusted for atorage in Hebgen
- Lake.

 (4) Adjusted for storage in Hebgen
 Loke and Ennis Lake.

 (5) Sum of West Fork Byalite Creek and
 East Fork Byalite Creek above the
- Reservoir.
 (6) Adjusted for storage in Middle
- (b) Adjusted for storage in Middle Creek Reservoir. (7) Adjusted for storage in Lima, Heb-gen, Emails & Clark Canyon Reser-voirs. (8) Adjusted for storage in Gibson

- (8) Adjusted for storage to Gibson Reservoir & diversions.

 (9) Adjusted for atorage in Lima, Clark Canyon, Hebgen, Ennis, Gibaon, Pishkuo, Willow Creek & Canyon Ferry Reservoirs.

 (10) Adjusted for storage in Two Medicine Reservoir & diversions in Two Medicine Canai.

 (11) Adjusted for all yesters.
- (11) Adjusted for all upstream
- reservoirs.
 (12) Flow at Eastern Crossing
- minus St. Mary's Canal.
 (13) Adjusted for storage in Lake
- ALL FORECASTS PREPARED IN COOPERATION WITH THE NATIONAL WEATHER SERVICE

	Flow P	•Ind
STREAM or AREA	Spring Season	Lese Season
Beaverhead	Avg	Fair
Ruby	Avg	Fair
Big Hole	Avg	Fair
Boulder	Avg	Fair
Je Clerons	AVR	Fair
Madison	Avg	Fai:
Gallatin	Avg	Fair
West-Side Missouri	Avg	Avg
Smith-Belt	Avg	Avg
Sun	Avg	Avg
Teton	Avg	Avg
Marias	Ave	Avg
Judith	Avg	Avg
Musselshell	Avg	Fair
Milk	Avg	Avg
Bear Paws	Exc	Avg
St. Mary's	Avg	Avg

Missouri streamflow forecasts vary

April through September nunoff is forecast 10 to 20 percet below average on all headwate streams above Canyon Ferry Respoir. Streams flowing into the Missori River downstream are predicted to have spring and summer runff that is only 5 to 10 percent below average. Runoff in the St. Mary's and Milk River drainaes is expected to be near average.

Irrigation water splies could be a little short in he southwest corner but near awage in most other

Most reservoirs the were drawn down last year in the nothern areas are expected to refill this spring.

SUMMARY OF SHOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)							
RIVER BASIN	Number of Courses	THIS YEA	R'S SNOW				
	Averaged	Lass Year	Average +				
Beaverhead	2.1						
Ruby	31	98	83				
Ruby	14	82	80.				
Big Hole	27	119	89				
Boulder	15	131	97				
Jefferson	87	104	85				
Madison	35	104	85				
Gallatin	24	89	77				
Missouri Headwater	146	101	83				
West-side Missouri							
(Toston-Cacade)	10	153	91				
Smith-8elt-Arrow	11	122	93				
Missouri Main-stem	21	132	92				
Teton & Sun	11	261	98				
Marias	6	194	94				
Marias-Teton-Sun	17	216	96				
Judith-Musselshell	17	109	95				
Milk	10	185	114				
Bear Paws	6	143	144				
Missouri (Total)	211	113	87				
(local)	211	113	0/				
Saskatchewan							
St. Mary's	6	170	101				
Bow River in	В	178	101				
Alberta	10	104	83				



MOUNTAIN SNOW WATER EQUIVALENT

February snowfall approaches average

Snowfall was about average during February in the headwaters of drainages downstream from Canyon Ferry Reservoir and near to below average in most Missouri River headwater streams.

Presently, the season's snow accumulation is below average over most drainages in the Missouri River headwaters. Exceptions are a small area in the Big Hole and Boulder River drainages near Butte where near average snowpack exists. The Bridger Mountain Range, northeast of Bozeman, has well below average snowpack. Downstream from Canyon Ferry, most drainages have near average snowpack except for the Musselshell River headwaters which is below average. The Bear Paw Mountains, south of Havre, have well above average snowpack levels.

Snowfall activity seemed to increase near the end of February in southern parts of the state. Hopefully, this area will receive enough additional snowfall over the next couple of months to improve the present outlook. If not, most of the southern areas can look for deficient conditions this year.

Yellowstone River Drainage STREAMFLOW FORECASTS

------Carryan Arriga APRIL - SEPTEMBER YELLOWSTONE RIVER at Corwin Springs 2+379 1.660 1.969 398 300 366 CLARKS FORK RIVER near Belfry 632 440 528 ROCK CREEK near Red Lodge
INFLOW COONEY RESERVOIR near Boyd (2) 60.5 44.0 89 4,262 4,516 3:180 83 3.594 3.833 84 1.688 1.794 1.974 1.976 1:500 1,688 1.794 YELLOWSTONE RIVER at Miles City (4) POHOER RIVER at Moorhead YELLOWSTONE RIVER near Sidney (5) 6+787 4.845 5:906 243 6.544

BASIN, STREAM and/or FORECAST POINT

Adjusted for storage in Hystic Lake.
 Adjusted for storage in Cooney Reservoir.
 Adjusted for storage in Buffalo Bill, Boysen, Buli Lake, Pilot Butte and Bighorn Reservoirs.
 Adjusted for storage in Bull Lake, Buffalo Bili, Boysen, Pilot Butte, Bighorn and Tongue River Reservoirs.
 Adjusted for reservoirs shown in (4) and diversions into the Lover Yeliowstone Canal.

YELLOWSTONE RIVER DRAINAGE

MONTANA

MOUNTAIN SNOW WATER EQUIVALENT

ALL FORECASTS PREPARED IN COOPERATION WITH THE NATIONAL WEATHER SERVICE



	Pilow Hertail		
STREAM or AREA	Sailing Season	L, nee Selfeon	
Yellowstone at			
Livingston	Avg	Fair	
Shields	Avg	Fair	
Boulder	Avg	Fair	
Sweetgrass - Big			
Timber	Avg	Fair	
Stillwater	Avg	Fair	
Rock Creek	Avg	Fair	
Clark's Fork	Avg	Fair	
Yellowstone above			
Bighorn	Avg	Fair	
Bighorn	Fair	Fair	
Little Bighorn	Avg	Fair	
Tongue	Avg	Fair	
Powder	Fair	Fair	
Lower Yellowstone	Avg	Fair	

LEGEND --- Drainage Boundary Gaging Station %1961-80 AVERAGE Over 130% 110 - 130% 90-110% 70-90% Under 70%

CANADA

Low runoffs expected

Spring and summer streamflows are

If weather patterns do not improve,

some shortages of irrigation water

supplies can be expected in mid- to

forecast to be 15 to 20 percent

below average over most of the

Yellowstone River drainage.

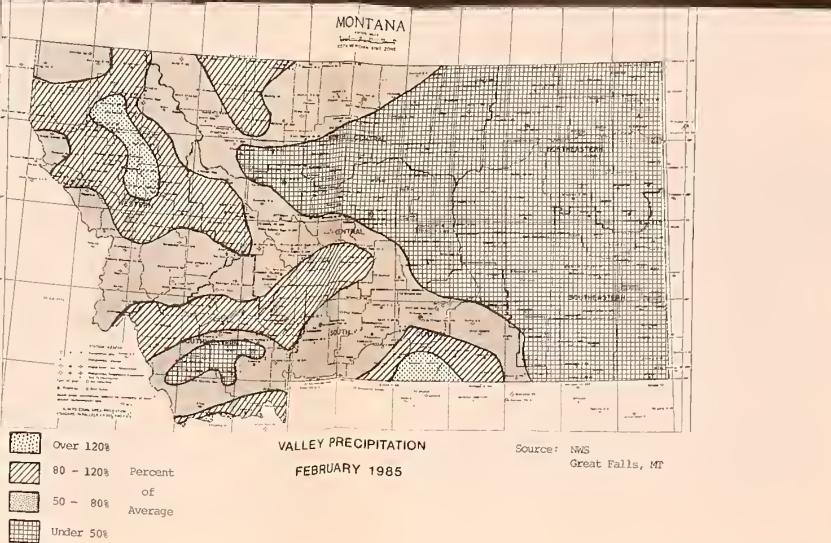
late summer.

SUMMARY OF SHOW MEASUREMENTS									
RIVER BASIN -	Number of Covers	MATER AS PERCENT							
SUB-MATERSHED	Averaged	Latt Year	Acres						
Upper Yellowstone									
ab Livingston	20	106	79						
Shields	10	81	72						
Woulder &									
Stillwater	6	116	79						
Rock Creek &									
Clark's Fork	16	104	77						
Yellowstone (ab									
Bighorn River) .	52	101	77						
Bighorn/Wyoming .	25	94	75						
Little Bighorn	3	100	78						
Tongue	7	109	87						
Powder	4	86	63						
Yellowstone									
(Total)	88	100	77						

Yellowstone snowpack remains below average

The mountain snowpack is generally below average throughout the Yellowstone drainage. Snowfall during February was near to a little below average across the headwaters but was not heavy enough to make up for last month's deficiencies.

Parts of the lower Rock Creek and lower Clark's Fork River drainages near Red Lodge still have well below average snow.



Under 70%

S	N	O	W	SU	RN	/EY	DA	ATA
---	---	---	---	----	----	-----	----	-----

SHOW COURSE	ELEVATION	DAIL	OEPTH	HATER CONTENT	LAST YEAR	
AKATA						
ABUNDANCE LAKE	8800	2/24/85	54	15.5	13.4	
AMBROSE		2/28/85		10.B	8.2 9.4	11,
ARCH FALLS	7350	2/26/85		9.0 8.2	3.3	6.
ASHLEY OIVIOE	4820 4000	3/01/85 3/01/85			3.3	
ASHLEY LAKE	6900	3/07/85			19.7	
BADGER PASS BADGER PASS BUTYL	6900	3/01/85		24.1	16.6	32.
BALO EAGLE PEAK	5700	3/01/85 2/26/85	155	60.9	33.2	54.
BALO RIOGE	7500	2/28/85	36	9.1	10.5	
BANFIELO MOUNTAIN	5600	2/26/85	\$8		9.0	21.
BANFIELO MTH BUTYL	5600	3/01/85		16.6	8.6	
BAREE CREEK		2/28/85	102	41.1	24.6 14.5	42. 33.
BAREE HIOHAY		2/28/85		36.3 11.3	2.5	
BAREE TRAIL	3800	2/28/85 3/01/85		11.4	8.9	
BARKER LAKES BUTYL	8250 7180	2/26/85		7.2	4.7	6.
BASIN CREEK BASIN CREEK METAL	7180	3/01/85		5.9		6.
BASSOO PEAK	5150	2/28/85		11.7	3.2	9.
BEAGLE SPRINGS	BS0	2/23/85		5.2	5.8	7.
BEAGLE SPGS HETAL	8850	3/01/85		6.4	6.5	6.
BEAR BASIN	8150	2/28/85 2/27/85	51	13.7	16.0	
BEAR PAH SKI AREA	5200			10.2	7.0	6.
BEAVER LAKE	5900	3/07/85	68	19.5	10.4	
BERRY MEADON		2/26/85	24	5.8	4.8	7.
DIG CREEK	6750	3/06/85 2/27/85	109	37.4	29.4 12.6	39. 13.
BIG SKY	7700	5/5//85	97	12.3 7.3	9.6	9.
SIG SKY MEAODH	6350 7150	2/28/85 2/26/85		18.6	19.2	18.
BIG SNOWY BLACK BEAR	7950	2/28/85		32.6	30.0	35.
BLACK BEAR BUTYL	7950	3/01/85		28.2	25.8	31.
SLACK PINE	7100	2/22/85		8.0	6.8	12.
BLACK PINE BUTYL	7100	3/01/85		8.2	8.0	12.
BLOODY OICK	7600	3/01/ 8 5 2/28/85	38	9.7	9.2	12.
BLOODY DICK BUTYL	7550	3/01/85		9.4	5.4	10.
BLUE LAKE	5900	3/07/85	80	25.0	11.9	
BOTS SOTS	7750	2/28/85		6.9	5.9	6.
BOULDER MOUNTAIN	7950	2/25/85	53	14.9	15.2	
BOULOER HTN SUTYL	7950	3/01/85		15.7 8.5	16.3	18. 8.
BOX CANYON METAL	67 00 8850	3/01/85		22.0 E	25.6	25.
BRANNAM LAKES				16.2	20.2	24.
BRIDGER BOHL	7250 72 50	2/25/85 2/25/85	58 	14.2	17.8	22.
BRIDGER SOWL BUTYL	3900	2/26/85	35	.11.5	4.2	11.
BRISTON CREEK BRUSH CREEK TIMBER	5000	2/28/85	36	10.1	5.0	9.
BULL MOUNTAIN	6600	2/28/85	24	5.8	4.1	5.
CABIN CREEK	5200	2/25/85	32	7.6	.1	6.
CALL RDAD	8050	2/23/85	33	7.2	10.0	10.
CALVERT CREEK	6430	2/27/85	35	8.2	6.6	10.
CALVERT CREEK BUTYL	6430	3/01/85		6.7	4.9	8.
CAMP HISERY	6400	2/26/85	125	45.2	37.6	42.
CAMP SENIA	7890 -	2/20/05	- 50	4,9	4.7	5
NON COURSE E	LEVATION	DATE	SNOH OEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-BO

9000 3/01/85 ---

3/01/85

3/01/85

2/26/85

2/25/85

2/27/85

2/23/85

3/01/85

2/26/85

3/01/85

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2/26/85 2/27/85

3/01/85

3/08/85

3/01/85

2/28/85

2/24/85

2/26/85 49

3/01/85 ---

2/23/85 39

2/28/85 36

2/24/85 61

2/26/85 59

3/04/85 46

3/01/85 ---

2/25/85 50

2/24/85 35

3/01/85 ---

16

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4.B

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5600 8150

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5600

8100

7050

5750

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8000

5500

8000

9100

9100 5700

6300

7500

8280

FOUR HILE FOURTH OF JULY FREO BURR PASS FREIGHT CREEK FRIOAY HILL FROHNER HEADOHS FROHNER HOMS BUTYL GARVER CREEK GAEVER CREEK GAEVER CREEK GOLO STONE GRASHOPPER GRAVE CREEK GRAVE CREEK GRAVE CREEK GRAVE CREEK GRAVE CREEK HAND CREE	ELEVATION	OATE	SMOH DEPTH	HATER CONTENT	LAST YEAR	AVERAGE 1961-80
FOUR HILE	6900	3/01/85	32	7.3	5.8	7.4
FOURTH OF JULY	3450	3/01/85	38	12.5	4.4	0,0
FREO BURR PASS	8000	2/26/85	55	14.7	17.6	22.1
FREIGNI GREEK	6000	3/0//85	58	14.2	6.1	13.8
FRIUM! MILL	4020	2/28/85	63	18.6	10.8	22.9
FROHNER HOWS BUTYL	64B0	3/01/85		3,/ 4.5	4,2	/ 1 7
GARVER CREEK	4250	2/26/85	37	11.2	5.0	10.7
GARVER CREEK BUTYL	4250	3/01/85		9.5	4.5	9.5
GI88ONS PASS	7100	2/25/85	62	18.3	17.0	20.7
GOAT HOUNTAIN	7000	2/26/85	39	10.0	3.5	10.2
COLO CKEEK LAKE	7200	2/20/85	39	9.2	9 · B	13.5
CDASSHOPPER	7000	2/28/85	44	12.3	12.0	15.1
GRAUF CREEK	4300	2/2//05	26 55	17.0	4,1	5.3
GRAVE CRK BUTYL	4300	3/01/85		16.2	9.4	16.4
GRIFFIN CREEK DIVIO	E 5150	2/28/85	40	12.1	5.0	11,1
GUNSIGHT LAKE	6300	3/07/85	98	35.0	24.5	36.9
HAND CREEK	5030	2/28/85	44	13.1	6.8	12.7
HANO CREEK BUTYL	5030	3/01/85		11.1	5.7	13.6
NAMKINS LAKE	6450	2/26/85	69	25.4	15.9	28.2
MEANT LAKE TRATE	4900	3/01/85		20.7	13.2	26.8
MENUL FULL LYHIC	4550	3/01/85	67	22.8	13.2	20.3
HELL ROARING DIVINE	5770	2/20/05	7 P	24.7	20.5	11.3
HERRIG JUNCTION	4850	2/27/85	69	22.7	14.4	24.4
NOLBROOK	4530	2/28/85	35	9.2	4.5	9.6
HODO MEADON	6600	2/26/85	35	7.9	8.0	9.6
H00000 BASIN	6050	3/01/85	117	48.2	33.2	44.6
NDOOOO BASIN BUTYL	6050	3/01/85		38.2	26.3	40.0
HODOOO CREEK	5900	3/01/85	108	42.1	30.0	41.8
INDEPENDENCE	7850	3/04/85	60	15.9	11.1	16.8
INTERGRANO	7200	2/26/85	25	5 • 2	4.2	7.6
JONNSON PARK	6450	2/28/85	22	7+6	0.6	B.9
KEELER CREEK	3300	2/26/85	54	18.6	5.0	1/12
KINGS NILL	7500	3/04/85	58	14.4	9.0	12.2
KISHENEHN	3890	3/01/85	34	8.0	3.3	8.3
KIHANIS CAMP	3720	2/27/85	12	2.6	2.2	2.1
KRAFT CREEK METAL	4750	3/01/85		12.9	9.2	12.5
LAKE UKEEK	6100	2/23/85	29	6.0	7.8	8.0
LAVEUTER DINCE	6930	2/25/85	33	7.9	6.8	10.4
LAKEVIEH ROG. METAL	7400	3/01/85	32	7.B	7.0	9.3
LEMNI PASS	7480	2/24/85	30	10.5	8.6 6.1	10.7
LEHNI RIOGE	8100	2/24/85	33	7.5	7.2	8.0 8.9
LEMHI RIOGE BUTYL	B100	3/01/85		7.4	5.1	9.0
LICK CREEK	6860	2/27/85	39	B.4	B.7	8.8
LICK CREEK BUTYL	6860	3/01/85		7 . B	7.1	7.7
LITTLE FARK	7400	2/28/85	43	10.4	12.2	14.4
LOGAN CREEK LONE HOUNTAIN	4300	2/28/85	30	7.4	3.3	7.4
LOST HORSE	88 8 0 5940	2/27/85	.59	17.4	18.4	19.6
LOST SOUL	4800	2/26/85	76 49	26.7 15.2	21.B 6.4	29.5 15.0
LOHER THIN	7900	3/01/85	57	18.1	16.1	18.6
LOWER THIN HETAL	7900	3/01/85		12.4	14.4	17.1
LUBRECHT FLUME	4680	2/27/85	18	4.2	1.6	5.8
LUBRECHT FLUME BUTYL		3/01/85		4.7	3.2	5.2
LUBRECHT FOREST NO 3	5450	2/27/85	21	4.3	3.6	7.0
SNOW COURSE	ELEVATION	DATE	SNOH OEPTH	MATER CONTENT	LAST YEAR	AVERAGE 1961-80

LUBRECHT FOREST	BUTYL 4680 NO 3 5450	3/01/85 2/27/85	21	4.7	3.2	7.0
SNOW COURSE	ELEVATION					AVERAGE
			OCOTH	CONTENT	VEAD	10/1 00
LUBRECHT FOREST		2/27/85		2.3	1.2	
LURRECHT FOREST LURRECHT HYOROP	NU 6 4040	2/28/85		3.0	. 9	4.2
		2/27/85 2/28/85	60	4.0 19.9	3.0 15.3	6.6 19.4
MADISON PLATEAU MADISON PLT BUT MANY GLACIER	YL 7750	2/28/85			14.1	20.6
MANY GLACIER	4900	2/28/85 3/01/85	63	20.6	9.6	
MANY GLACIER BU	TYL 4900	3/01/85		16.7	9.2	
		3/01/85	58	19.0		
MARIAS PASS MAYNARO CREEK	6210	3/01/85 2/25/85	40	9.5	7.2 10.7	14.1
MAINAND CKEEK B	UITL 6210	2/25/85 3/01/85		6.6	7 • B	10.5
MIDDLE HILL CRE	EK 7850	3/01/85		13.0 E	14.9	14.5
HILL CREEK	7500 4000 8850	2/27/85	40	8.7		11.7
MINERAL CREEK MONUMENT FEAK	0000	2/27/85 3/04/85	60	17.1	9.8 17.3	17.1 23.9
HONDHENT PEAK H	FTA1 9950	3/04/85		13.7	12.7	19.8
HONUMENT PEAK M HOULTON RESERVO	TR 6850	3/01/85 2/28/85	28	6.0	12.7 5.1	6.9
MOUNT LDCKHART	6400	2/27/85	67	20.2	10.6	
HT LOCKHART BUT HUOO LAKE HULE CREEK HULE CREEK HETA	6400 YL 6400	2/27/85 3/01/85		17.1	9.6	19.0
HUOO LAKE	7650	2/26/85	52	15.1		
MULE CREEK	8300	2/24/85 3/01/85	42	11.3	8.8	11.3
HULE CREEK HETA	L 8300	3/01/85		10.8	9.3	11.4
NEVADA CREEK NEVADA CREEK ME	4480	3/05/85 3/01/85	52	13.1	6.7	11.1
NEVADA CREEK ME	TAL 6480	3/01/85		12.2		
MEN WOLLD	0700	2/23/03	50	11.0	11.4	
MENTON MOUNTAIN	5650 5650	2/28/85 2/26/85	87	34.6	20.4	33.7
NEZ PERCE CAMP	363U 11TVI 5450	2/20/85		12.6	11.4	13.7 13.6
NEZ PERCE CMP 8 NEZ PERCE CREEK	0017	3/01/85 2/25/85	24	3.8	4.3	6.6
NEZ PERCE PASS	6600 6570 6040	2/26/85	. 46	13.4	14.0	15.4
NOTSY BASTN	6040	2/26/85 2/25/85	118	40.4	36.8	37.9
NOISY BASIN BUT NORTH FORK ELK N.FORK ELK CRK	YL 6040	3/01/85		35.1	30.9	
HORTH FORK ELK	CREEK 6250	2/27/85	39	10.5	6.3	11.0
N.FORK ELK CRK	BUTYL 6250	3/01/85		9.7	6.7	10.5
NORTH FORK JOCK	0 6330 7500	3/06/85 3/01/85	105	33.8	31.6 5.8	40.8
NORTH HEADON	7500	3/01/85	27	6.4	5.8	7.2
NORTHEAST ENTRA	NCE 7350	2/28/85 3/01/85	25	6.2	5.9	
N.E. ENTRANCE B	UTYL 7350	3/01/85	20	6.3	5.7 15.6	8.8
NOTCH COUTS BASK	7150	2/23/85	36 45	13.2	11.4	13.6 15.4
OPHIR PARK PETERSON MEADON	IS 7200	2/25/85	34	13.3 8.0	6.2	9.0
PETERSON HOW BU	TYL 7200	2/25/85		7.7		
PICKFOOT CREEK	6650			8.2	7.2	
PICKFOOT CRK HE	TAL 6650	3/01/85		9.4	6.5	10.2
PIKE CREEK BUTY		3/01/85		25.1	12.9	24.3
PIPESTONE PASS	7200	2/25/85		4.6	3.0	4,4
PLACER BASIN ME		3/01/85		12.5	10.8	14.8
POORHAN CREEK	5100	2/26/85	94	35.5	19.0	31.7
POORHAN CRE BUT PORCUPINE	YL 5100 6500	3/01/85 2/28/85	21	34.0 5.4	16.0	28.9
PORCUPINE BUTYL		3/01/85		5.7	6.0	6.8
POTOMAGETON PAR	RK 7150	2/26/85	44	10.3	11.1	13.6
REO HOUNTAIN	6000	3/01/85	51	16.8	10.0	17.2
REO TOP	5260	2/28/85	75	27.2	15.3	28.1
ROCK CREEK	5600	2/26/85	41	10.8	11.3	8.3
ROCK CREEK MEAG		2/26/85	55	13.2	13.8	18.7
ROCKER PEAK	8000	2/26/85		10.4	8.3	13.3
ROCKER PEAK BUT	YL 8000	3/01/85		10.2	6.9	12.6

SNOW COURSE	ELEVATION	OATE	SNOW	WATER CONTENT	LAST YEAR	AVERAGE 1961-80
ROCKY BOY	4700					
ROCKY BOY BUTYL		2/27/85 2/27/85	21	6.0 5.5	4.4	4.5
SACAJAHEA	6550	2/25/85	34	3.3 8.5	11.5	13.1
SACOLE MOUNTAIN	7940	2/25/85	65	19.2	17.4	13.1
SACOLE NTN BUTYL	7900 8300	3/01/85		18.9		
SENTINEL CREEK	8300	2/25/85	60	18.9 14.8	16.8	21.0
SHOWER FALLS BUTYL	B100	2/26/85	58	15.1	18.4	20.2
SHOWER FALLS BUTYL	B100	3/01/85		15.9	18.3 4.7	19.1 5.5
SILVER RUN SILVER RUN BUTYL	6630	2/26/85	15		4.7	5.5
STEVER KUN BUITE	6630	3/01/85		3.2 19.8	4.6	4.2
SILVER RUN BUTYL SKALKAHO SUHHIT SKALKAHO SUHHIT BTYI SKYLARK TRATL	7250	2/28/83	63	17.8	14.4	23.5
SKYLARK TRATE	6200	3/06/85	BB	17.1 26.8	12.6	23.5
SKYLARK TRAIL SKYLARK TRAIL HETAL SLAG-A-HELT LAKE	6200	3/01/85		26.2	22.2	28.5
SLAG-A-MELT LAKE	8750	2/24/85	64	20.5	17.5	22.3
SLIGE ROCK HOUNTAIN SHUGGLER MINE	7100	2/21/85	38	10.1	10.4	14.6
SHUGGLER MINE	6960	3/01/85		8.5E	9.0	8.9
SOUTH FORK SHIELOS S.FK. SHIELOS BUTYL	B100	2/28/85	52	15.5	22.0	21.2
S.FK. SHIELOS BUTYL	B100	3/01/85		11.7	14.4	13.6 14.2
SPOTTED BEAR NTN.	7000	3/07/85	50	14.4	8.4	14.2
SPUR PARK SPUR PARK BUTYL	B100	3/04/85	69	18.6	14.1 14.4	18.6
	8100	3/01/85		17.5		
STANL PEAK	6030	2/26/85 3/01/85	92	32.6	25.7	35.9
STANL PEAK BUTYL STEMPLE PASS STORM LAKE STRYKER BASIN STUART MILL	0609	3/01/85	45	27.7	21.6	30.0
STORM LAVE	7780	2/2//83	42	9./	3.8	7.3
STRYKER BASTN	61 P.O	2/27/05	77	25.2	10 2	21.2
STUART HILL	6500	2/2//05 2/24/R5	23	5.0	3.3	٨.2
STUART HILL STUART HOUNTAIN	7400	3/06/85	85	5.0 27.6	24.0	28.6
SUCKER CREEK	3960	2/27/85	0	.0	.4	,5
TAYLUR ROAD	4080	2/27/85 2/27/85	20	. 0 7 • 0	3.6	.5 3.4
TEN HILE LOWER	6600	2/26/85	29	6.1 8.6 10.2	5.1	6.7 10.0 12.3
TEN HILE HIDDLE	6800	2/26/85	39	8.6	6.2	10.0
TEN MILE UPPER	8000	2/26/85	42	10.2	8.0	12.3
TEPEE CREEK TEPEE CREEK BUTYL	8000	2/23/85	40	9.3	11.8	13.2
TEPEE CREEK BUTYL	8000	3/01/85		8.6	10.6	10.7
TIMBERLINE CREEK	8850 7090	2/28/85	43	8.6 10.8 5.6 40.0 6.2 15.5 20.5	9.2	12.3
TRAIL CREEK	/090	2/24/85	28	5.6	6.0	7.3
TRINKUS LAKE TRUHAN CREEK	0100	3/06/85	11/	40.0	29.3	38.7
TV HOUNTAIN	4000	3/01/05	54	15.5	12 0	16.8
THE UPATIF CREEK	5600	2/27/85	62	20.5	12.P	20.9
THELVEHILE CREEK THELVEHILE BUTYL	5600	3/01/B5		20.5 15.7	11.3	17.3
THENTY-ONE HILE	7150	2/27/85	48	13.5	10.B	16.3
THIN CREEKS	3580	3/07/85	43	12.5	5.7	11.7
THIN LAKES	6510	2/27/85	92	33.4	27.2	37.7
THIN LAKES BUTYL	6400	3/01/85		29.5	24.B	36.9
UPPER NOLLAND LAKE	6200	3/06/85	92	30.0	23.2	32.7
HALORON	5600	2/27/85	37	10.0	2.4	10.1
HALDRON BUTYL	5600	3/01/85		9.8	4.3	9.6
WARM SPRINGS	7800	2/26/85	46	11.7	12.3	19.0
HARM SPRINGS BUTYL	7800	3/01/85		12.6	13.6	19.2
HEASEL OIVIOE HEST ROSEBUO	5450 7500	2/26/85 2/27/85	88	30.9	18.1	31.4
WEST YELLOWSTONE	6700	2/2//85	25 41	5.6 10.7	5.2	9.9
WEST YELL'ST BUTYL	6700	2/27/85		B.0	8.7 6.9	11.2 8.8
HNISKEY CREEK	6800	2/28/85	56	17.5	13.3	17.9
HHISKEY CREEK BUTYL	6800	3/01/85		13.4	10.5	19.7
HHITE HILL	8700	2/27/85	65-		16.7	
SHOW COURSE	ELEVATION	OATE	SHOW	WATER	LAST	AVERAGE

			001111	CONTENT		1701 00
WHITE MILL BUTYL				1 A . R	14.9	21.3
HNITE PINE RIDGE					5.0	4.6
HILLOH CREEK	6500	2/23/85 2/26/85	29	E 7	7.4	7.7
HDOO CREEK HETAL	5940	3/01/85		12.R	2.7	11.3
HRONG CREEK	5700	2/23/85	42	12.8 12.2	4.7	13.4
HRONG RIDGE	4800	2/20/05	51	16.1	8.3	
AKONG KIUGE	0000	3/01/85 2/23/85 2/24/85	31	10,1	013	10.1
ALBERTA						
AKAHINA CAN.	5810	2/26/85	72	21.2	10.0	15.6
AKAHINA PILLOH CAN.	5810	3/01/85		19.1	10.0	
ALLISON PASS CAN.	6490	2/27/85		14.7	9.3	15.3
BOH RIVER CAN.	5080	2/28/85	29	6.4	5.6	8.0
BOW RIVER SUMMITCAN.	6660	2/28/85 2/27/85	43	11.4	11.2	12.8
CHATEAU LAHN CAN.		2/28/85		R.0	6.7	10.2
CUTHEAD LAKE CAN.		2/27/85	40	10.5	12.3	
NIGHHOOD SUMMIT CAN.		2/26/85		12.1	10.0	13.3
GABLE HOUNTAIN CAN.	, 204	2/27/85	22	4.7		
GARDINER HEAD. CAN.		2/26/85		28.6		
SATHERINE LAKE CAN.		2/27/85	41		15.0	
LARCH VALLEY CAN.		2/27/85	. –	10.2	13.6	
LEE CREEK O CAN.		2/27/85	31	7 · B		7.5
LEE CREEK E CAN.		2/27/85	37	9.4		7.0
LEE CREEK F CAN.		2/27/85	26	6.7		6.1
LEE CREEK P CAN.		2/27/85	22	5.4		6.7
LEE CREEK Q CAN.		2/27/85	31	7.9		6.6
LOST CREEK CAN.	.070	2/26/85		15.2		
LT. ELBOH SUMM CAN.		2/26/85	42	10.9	7.4	
MARMOT-JASPER CAN.		2/27/85		7.4	,	6.7
MCCONNELL CREEK CAN.		2/27/85	26	5.9		
MIRROR LAKE CAN.				7.2	9.4	10.2
HOUNT SKOKI CAN.		2/27/85				
MUD LAKE CAN.	6200	2/27/85 2/26/85	43	11.5	11.2	
NIGEL CREEK CAN.		2/26/05	45	11.2		14.1
PIPESTONE UPPER CAN.	5300	2/26/85 2/28/85	32	7.9	6.2	8.4
PTARHIGAN HUT CAN.		2/27/85			12.7	13.5
RACEHORSE CREEK CAN.		2/26/85		15.4		
SUNSHINE VILLAGECAN.	7200	2/20/03	59	15 7		
SUNSHINE PILLOW CAN.	7300	2/28/85 3/01/85		15.9	16.0 17.4	1715
SUNHAPTA FALLS CAN.	/ 300	3/01/03		6.1	1714	6.5
	7000	2/27/85 2/28/85	E /		17.9	0.0
THREE ISLE LAKE CAN. W.CASTLE (BUSH) CAN.				15.7	7.8	
W.CASILE (BUSK) CAN.	4970	2/26/85	22	15.7	7.0	
BRITISH COLUMBIA						
BEAVER FOOT CAN.	6200	2/27/85	26	6.1	4.2	8.5
	3500	2/27/85	34	10.6	1.1	
FERNIE EAST (NEW) CAN.	4100	2/27/85 2/27/85	49	15.8	7.7	7.8 13.9
FERNIE NE CAN.			38	12.8	3.6	9.1
FIGELITY MIN. CAN.		-			35.1	

2/28/85 115

43

23.1

19.6

13.2

21.6

3.5

2/26/85

2/27/85

2/28/85

3/01/85

FIGELITY MTN. CAN. 6100

GRAY CK. LOHER CAN. 5100

CAN.

GRAY CK UPPER CAN. 6270 3/01/85 KICKING HORSE CAN. 5400 2/25/85 KIMBERLEY CAN. 3810 2/26/85

4200

4100

FIELO

FLOE LARE

GLACIER

DEPTH CONTENT YEAR 1961-80

43.1

25.2

15.7

27.2 12.8 7.5

	SNOW COURSE E	LEVATION	OATE	SNOH	HATER	LAST	AVERAGE
				OEPIH	CONTENT	TEAK	1.491-90
	LOWER KIMBERELY CAN.	4500	2/27/85	20	7.3	0.7	0.1
	KINBERLEY HIO. CAN.		2/27/85		9.6	6.8	11.1
	UPPER KIMBERLEY CAN.		2/27/85	44	14.4	10.7	17.8
	MARBLE CANYON CAN.	4990	2/27/85	42	13.7	8.7	13.0
	MDRRISSEY RIOGE CAN.	6100	2/26/85	73	26.0	15.4	26.2
	MOUNT ABBOT CAN.		2/25/85		33.5	34.0	41.9
	AT ASSINIBOINE CAN.		2/27/85 2/27/85	52	14.2	13.4	17+2 12+9
	HOUNT JOFFRE CAN. HOYIE NTN CAN.				11.3	6.7	12.9
	MOYIE MIN CAN. SINCLAIR PASS CAN.	6400 4500	3/01/85 2/27/85	40	13.7 4.3	2 2	17.0 5.6
	SULLIVAN NINE CAN.				10.7		11.9
	THUNDER CREEK CAN.	6600	2/27/85	32	8.1	6.2 5.4	9.3
	UPPER ELK RIVER CAN.		2/26/85			,6	0.7
	VERMONT CREEK CAN.		2/27/85	46	13.7	8.7	17.2
TO	DANO						
-	ANO						
	BEAR HOUNTAIN		2/26/85				55.3
	BEAR HTN SNOTE		3/01/85		53.8		
	BIG SPRINGS	6400	3/01/85		16.4	15.0	
	BLACK CANYON	7960	3/01/85		31.9E	26.6	33.2
	BLACK HOOSE CAMP CREEK	8160 6580	3/01/85 2/28/85	24	33.7E B.2	23.8	9.3
	CRAS CREEK SNOTE	0.000	3/01/85			0 + 7	
	NUMBOLOT GULCH	4250	2/25/85		17.6	8.4	
	NUMBOLOT GLCN SNOTE		3/01/85		15.4		
	ISLANO PARK	6290	3/01/85	52	14.6	13.6	15.3
	ISLANO PARK SHOTE		3/01/85		13.4		
	KILGORE	6320	2/27/85 2/26/85	34	8.6	11.2	10.7
	KIT CARSON PASTURE LATNAM SPRINGS	4950 7630	2/26/85	33	7.8	8.1	
	LDLO PASS	5240	2/27/85 3/01/85	77	23.0 25.2	25.2 17.5	27.4
	LOLO PASS SNOTE	L 5240	3/01/85		26.4		
	LOOKOUT	5140	2/25/85	98	34.5	19.2	30.4
	LUCKY DDG	6860	2/27/85		19.6	20.6	
	MOOSE CREEK	6200	2/27/85	47	13.0	15.6	15.1
	MOOSE CR SNOTE		3/01/85		11.3		
	HOSQUITO RIDGE	5200	2/27/85 3/01/85	94	36.2	22.4	
	HOSOUITO SNOTE				34.4		
	SAVAGE PASS SAVAGE PASS SNOTE	6170 L 6170	3/01/85 3/01/85	12	23.6 22.8	16.9	24.3
i	SANTELL MOUNTAIN		3/01/83	80	26.0	27.3	
	SUNSET	5540	3/01/85 2/26/85	7.6	26.4	24.6	28.6
1	SUNSET SNOTE		3/01/85		30.7		
	TARGNEE PASS	6980	3/01/85		12.9E	9.3	13.4
	VALLEY VIEW	66B0	3/01/85		19.4	10.3	15.2
	HNITE ELEPHANT	7710	3/01/85		18.8	16.2	21.0
1	WHITE ELEPHANT SHTE	EL 7710	3/01/85		19.3		21.8
<u> 1</u>	YOHING						
	BALO HOUNTAIN	9380	2/27/85	,	13.0E	15.9	19.2
l	BALD HOUNTAIN SHOTE		3/01/85		13.7	14.9	
	SEARTOOTH LK. SNOT		3/01/85		14.6	12.3	
	BURGESS RANGER STA		2/27/85		6 + 7	5.4	6.9
	SURGESS JCT. SNOTE		3/01/8		8.8		
	CANYON	7940	2/28/8		11.2	8.3	14.3
	CANYON SNOTEL EAST ENTRANCE	7940	3/01/8			8.3	14.3
<u>. </u>	EMST CHTRANCE.	4760	212016				
1	SNOW COURSE	ELEVATION	ON DATE	E SNI	OH WATER	LAST	AVERAG
1	ORON COOKSE	CCCAHITI	Unit	DEPT			

SNOW COURSE E	ELEVATION	DATE	SNOW DEPTH	HATER CONTENT	LAST YEAR	AVERAGE 1961-80
EVENING STAR SHOTEL	9200	3/01/85		18.8	21.6	
LAKE CAMP	7780	2/27/85	34	7.5	7.0	0.5
LUPINE CREEK	7380	3/01/85	37	8.9	5.5	9.7
NORRIS BASIN (OLO)	7500	2/28/85	36	8.2	5.8	10.0
NDRRIS BASIN (NEW)	7500	2/28/85	37	8.1	5 · B	
NORTH TONGUE	8450	2/27/85	42	9.6	8.1	11.4
OLO FAITNFUL	7400	3/03/85	52	14.1	8.6	14.5
PARKERS PEAK SHOTEL	9400	3/01/85		14.0	15.2	28.1
SYLVAN LAKE SHOTEL	8420	3/01/85		17.5	16.7	
SYLVAN PASS	7100	2/28/85	40	10.6	7.5	12.4
THUMB OTVIOE	7980	2/27/85	59	18.2	12.2	18.1
TOCHOTEE PASS	9580	2/28/85	68	20.5	21.6	25.2
TOGHOTEE PASS SNOTEL	9580	3/01/85		18.0	17.5	~ =
TROUT CREEK SNOTEL	8400	3/01/85		7.1	5.2	
THO OCEAN SNOTEL	9160	3/01/85		18.5	17.8	27.2
HOLVERINE	7650	2/27/85	33	7.6	6.4	11.8
HOLVERINE SHOTEL	7650	3/01/85		7,1	6.4	
YOUNTS PEAK AM	8350	3/01/85	39	10.5		17.6
YOUNTS PEAK SHOTEL	8350	3/01/85		12.9	15.1	17.6



SCS Snow Surveyors enroute to snow course.

CARROT BASIN BUTYL

CASNE CREEK HETAL

CHESSHAN RESERVOIR

CLOVER MEADON METAL

COLE CREEK BUTYL

COMBINATION BUTYL

COPPER SOTTON BUTYL

COPPER CAMP BUTYL

COPPER LAKE CREEK

COPPER HOUNTAIN

COTTONHOOD CREEK

CREVICE HOUNTAIN

OAO CREEK LAKE OAISY PEAK

DALY CREEK METAL

OARKHORSE LK. HETAL

DEADHAN CREEK BUTYL

OUPUYER CREEK BUTYL

DARKHORSE LAKE

DAVIS CREEK

DEADHAN CREEK

OESERT HOUNTAIN OEVILS SLIDE

DISCOVERY BASIN

OIVIDE BUTYL

EAST FORK R.S.

EL ODRAGO HINE

ELK HORN SPRINGS

EMERY CREEK BUTYL

FISHER CREEK BUTYL

FIVE-BULL FLATTOP HTM BUTYL

FLEECER RIDGE

FOOLHEN

OIVIOE

OIX HILL

ELK PEAK

EMERY CREEK

FATTY CREEK

FISHER CREEK

FISH CREEK

CRYSTAL LAKE METAL

CARTER CREEK

CHICKEN CREEK

CLOVER HEADON

COLLEY CREEK

COOKE STATION

COPPER BOTTOM

COPPER CAMP

COPPER CREEK

COYOTE HILL

CRYSTAL LAKE

OALY CREEK

COMBINATION

COLE CREEK

CEOAR GROVE

Columbia River Drainage

STREAMFLOW FORECASTS		SYEAR	Y	AST RECOPE		YEAR		TRECORD		YEAR		CROSER T
A SALLY SALLY	Thousand	Personal	THOUSA	NO ACRE FEET	†housana	Percent of	Last Year	ACRE FEET	FORE	Percent of	L Not Year	ACRE FEE
BASIN STREAM MICH PORCCAST POINT	Acte Feet	Avetage	Lange	Average	Acre Feet	Average	Last Year	Avtrage	Acre Feet	Average	CHETTI	Avera
PERIOD		APRIL -	SEPTEH	BER		APRIL	- JULY			APRIL	- JUNE	
COCTENAT RIVER below Libby Dam (1)	6.340	90	5,466	7.041	5,360	89	4,520	6.020				
ISHER RIVER near Libby	269	102	07466	264	255	103		248				
AAK RIVER near Troy >	47 D	90		523	450	90		500				
DOTEMAL RIVER at Leonia (1)	7+990	93	6,534	8,602	6,90D	92	5,596	7:498	5,565	92	4,282	6,05
FLOW HOULTON RESERVOIR or Butte (Million Gallons).			4.034	0,402	220	84	182	263	200	84	179	23
ARK SPRINGS CREEK AT MEYERS OAK near Anaconda (2) .	40.0	86		46 • B	33.0	86		37.8				
INT CREEK near Southern Cross (3)	15.4	84	26.	11 1	13.0		21.3	15.4				
INT CREEK below Boulder Creek (4)	62.2	82		75.B	49.0	82		59.5				
FLOW LOWER WILLOW CREEK RESERVOIR near Hall (5) .	11.8	75	11,	6 15.7	11.2	74	10.3	2 14.9				
COOLE FORK ROCK CREEK near Philipsburg	66.3	85	•	78.2	60.0	85		70.5				
VADA CREEK near Finn	20.1	87		23.0	18.6	87		21.3				
ACKFOOT RIVER near Bonner	910	91		999	830	92		904	720	92		78
ARK FORK RIVER above Milltown (6)	685	84		816	595	84		7 0 B	500	84		59
ARK FORK RIVER above Missoula	1,595	87	1:565	1,815	1,425	88	1,360	1:612	1:220	89	880	1+37
ST FORK BITTERROOT RIVER near Conner (7)	155	87		178	145	88		164				
TIERROOT RIVER near Oarby	512	88		580	475	89		532	419	90		46
ALKAHO CREEK near Hamilton	50.0	89		56.0	43.8	90		48.7				
RNT FORK CREEK near Stevensville (8) , , , , , , ,	33.2	89		37.4	29.0	90		32.2				
TTERROOT RIVER at Missoula (9)	1.350	90		1,504	1,245	90		1+384	1 + 070	90		1,19
ARK FORK RIVER below Missoula	2,945	89		3,319	2,670	89		2,996	2,290	89		2 • 57
ARK FORK RIVER at St. Regis	4,050	92	3,732	4,411	3 - 615	92	3,322	3,928	3,155	92	2,825	3,42
ORTH FORK FLATHEAD RIVER near Columbia Falls	1,790	94		1,913	1+625	94		1,732	1,380	94		1 + 47
OOLE FORK FLATHEAD RIVER near West Glacier	1,790	96	1,316	1+869	1+660	97	1,236	1,713	1,400	96	1.086	1,45
OUTH FORK FLATHEAD RIVER near Columbia Falls (10) .	2,230	98	1,515	2,278	2,100	98	1,694	2,142	1,850	98	1,416	1,88
ATHEAD RIVER at Columbia Falls (10)	5,930	96	4+73B	6+208	5,44D	97	4,294	5,721	4,800	97	3,589	4.92
AN RIVER near Big Fork ,	645	94		689	570	94		604				
ATHEAO RIVER near Polson (11)	7:020	96	5,586	7+278	6,535	97	5,102	6,712	5+570	97	4,284	5,75
ARK FORK RIVER mear Plains (11)	11,500	95	9+695	12,153	10,520	95	B,914	11,071	B,990	95	7,457	9,45
DMPSON RIVER near Thompson Falls	250	96		261	225	97		233				
OSPECT CREEK at Thompson Falls ,	145	102		142	135	102		132				
ARK FORK RIVER at Whitehorse Rapids (12)	12,900	95		13,575	11+735	95		12,351	10,050	95		10.57

- (1) Adjusted for storage in Lake Koocanusa.
 (2) Adjusted for storage in Silver Lake, diversions to and pumping from Georgetown Lake.
 (3) Adjusted for storage in Georgetown Lake, diversions from and pumping to Silver Lake.
 (4) Sum Flint Creek at Hazville and Boulder Creek at Mazville.
- (5) Sum of North Fork Lover Willow Creek near Hall and South Fork Lover Willow
- Creek near Hall. (6) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.
- (7) Adjusted for storage in Painted Rocks Reservoir.
 (8) Adjusted for diversion into Sunset Highline
- Canal.

 (9) Difference in observed flow Clark Fork above and
- below Missoula. (10) Adjusted for storage in Bungry Horse Reservoir.
 (11) Adjusted for storage in Bungry Horse Reservoir and
- Flathcad Lake.
 (12) Adjusted for storage in Hungry Horse Reservoir,
 Flathcad Lake and Homon Rapids Reservoir.

ALL FORECASTS PREPARED IN COOPERATION WITH THE NATIONAL WEATHER SERVICE

Columbia streamflows

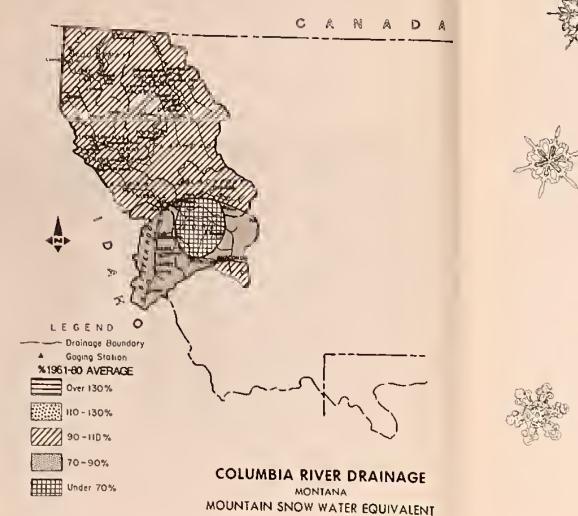
a little below average

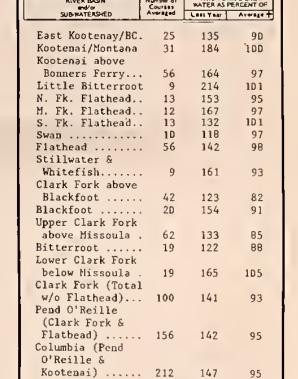
Streams in the Clark Fork River headwaters above Missoula are forecast to have 10 to 15 percent less runoff than average.

Flathead and Kootenai River tributaries should have runoff near to a little below average.

If current weather patterns continue, some shortages of irrigation water supplies can be expected in the Bitterroot, Blackfoot and Upper Clark

-	Fig. P.	ried
STREAM or AREA	Spring	Late
Tobacco	Ing	Ave
Little Bitterroot	172	Ave
Mission Valley	lvg	Avg
Flint Creek	īair	Fai
Upper Clark .Fork	Avg	Fai
Nevada Creek	Avg	Fai
Blackfoot	AVg	Avg
West-side Bitterroot	Avg	Fai
East-side Bitterroot	Avg	Fai
Bitterroot River	Avg	Fai
Lower Clark Fork	AVE	Avg





SUMMARY OF SNOW MEASUREMENTS

February accumulation

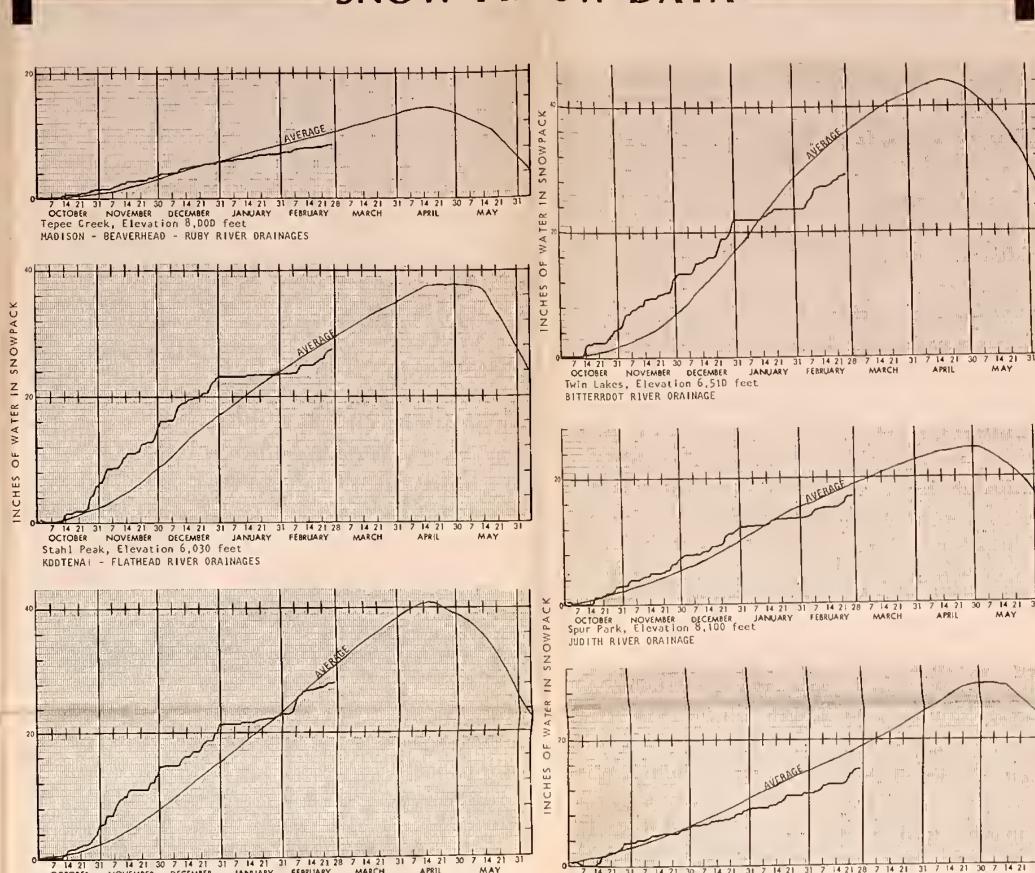
near average

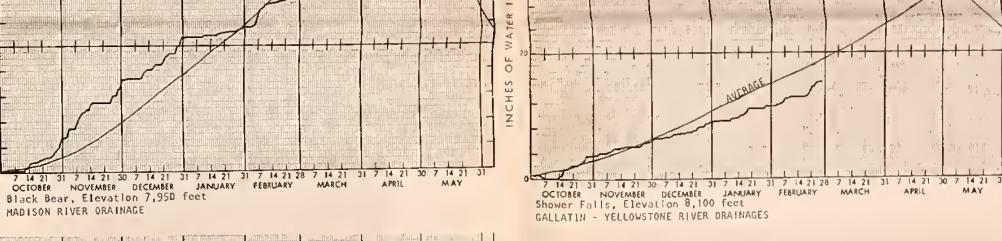
Snow accumulation during February was near average in most of the Columbia drainage except for some of the more southern areas.

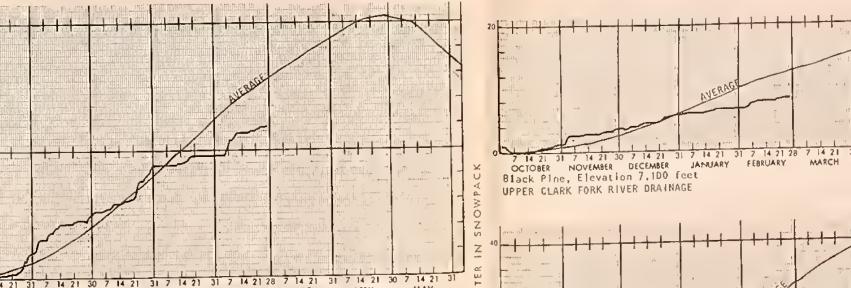
In general, the water of the snowpack is about average in all headwaters north of Missoula and a small tip of the Clark Fork near Butte. Most of the Bitterroot River drainage and the Clark Fork above Missoula have below average snowpack. A small area in the Flint Creek, Boulder Creek, Rock Creek headwaters has a much below average amount of snow water content.

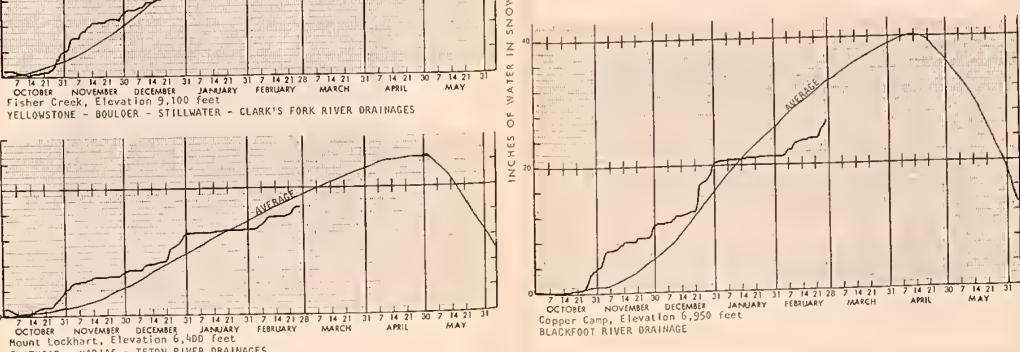
Weather patterns seem to be changing toward a little more precipitation in the southern part of Montana. Hopefully, this condition will continue. If conditions do not improve over the next couple of months, the snowpack for the season will be below normal in most areas upstream from Missoula and some water shortages could develop.

SNOW PILLOW DATA









FLATHEAD - MARIAS - TETON RIVER DRAINAGES

SATELLITE SNOW COVER

DATA PROVIDED BY NOAA/NWS

Scale 1: 2,500,000



MISSOURI RIVER BASIN Above Canyon Ferry Dam

DATE	PERCENT SNOW COVER	AVERAGE SNOWLINE ELEVATION IN FEET
February 25, 1985	100	3,800



Snow Covered Arca



AGENCIES AND ORGANIZATIONS COOPERATING IN MONTANA SNOW SURVEYS

GOVERNMENT AGENCIES

Canada

Department of the Environment Atmospheric Environment Service Water Management Service

British Columbia Ministry of Environment Inventory and Engineering Branch, Hydrology Section

Alberta Environment

Technical Services Division

Federal

Department of the Army - Corps of Engineers Department of Agriculture - Forest Service

- Soil Conservation Service

- National Environmental Satellite Service Department of Commerce

- National Weather Service
- Department of Interior - Bureau of Indian Affairs

- Fish and Wildlife Service

- Geological Survey - National Park Service

- Bureau of Reclamation

Department of Energy - Bonneville Power Administration

STATE AGENCIES

Montana Conservation Districts Montana Department of Fish, Wildlife and Parks

Montana Department of Natural Resources and Conservation

Montana State University - Agricultural Experiment Station University of Montana - School of Forestry

PRIVATE ORGANIZATIONS
The Anaconda Company

Big Sky of Montana

Butte Water Company

Flathead Valley Community College

Montana Power Company Pondera County Canal & Reservoir Company

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH February 28, 1985									
neserroin oromoz (me		USABLE		ABLE STORAG					
BASIN OR STREAM	RESERVOIR	CAPACITY		LAST YEAR					
	COLUMBIA								
Kootenai	Koocanusa	5,748.2	1,885.0	2,789.0	1,948.0				
Flathead	Hungry Horse	3,451.0	2,700.0	2,507.0	2,213.0				
	Flathead Lake	1,791.0			934.1				
	Camas (4)	45.2	17.0		21.0				
	Mission Valley (B)	100.3	36.4	55.4	38.1				
Clark Fork	Georgetown Lake	31.0	26.2	27.1	25.2				
	Lower Willow Creek	4.9	0.3	3.3	1.6				
	Nevada Creek	12.6	316.5	6.3	4.8				
B11.4	Noxon Rapids Painted Rocks	334.6 31.7	310.3	322.8	295.1 16.1				
Bitterroot	Como	34.9	8.8	23.9	12.6				
	Como	34.9	0.0	23.9	12.0				
	MISSOURI								
Beaverhead	Lima	84.0	28.7	55.7	36.1				
	Clark Canyon	257.2	147.9	171.8	141.2				
Ruby	Ruby	38.8	27.8	27.8	26.7				
Madison	Hebgen Lake	377.5	305.2	261.9	224.6				
	Ennis Lake	41.0	32.5	31.2	35.7				
Gallatin	Middle Creek	8.0	3.8	3.8	3.6				
Missouri	Canyon Ferry	2,043.0			1,561.0				
	Hauser & Helena	61.9	63.0	63.0 3.9	60.1				
	Helena Valley	9.2	3.6	10.9	5.1 9.9				
	Lake Helena Holter Lake	10.4 81.9	10.9 75.4	79.6	63.6				
	Fort Peck Lake	18,910.0		15,900.0	14,830.0				
Smith	Smith River	10.6	8.4	9.6	7.0				
Smith	Newlan Creek	12.4	9.7		9.2				
Musselshell	Bair	7.0	0.5	3.2	4.7				
	Martinsdale	23.1	5.7	14.2	9.5				
	Deadman's Basin	72.2			46.3				
Sun	Gibson	99.1	50.9	54.7	43.9				
	Willow Creek	32.2	12.6	24.3	20.1				
	Pishkun	32.0	18.5	19.4	17.8				
Marias	Lower Two Medicine	11.9			7.0				
	Four Horns Swift	19.2 30.0	9.2	13.1	12.5 15.2				
	Lake Frances	111.9	23.2	47.2	70.1				
Milk	Elwell (Tiber)	1,347.0	668.2	695.0	542.1				
112211	Beaver Creek	3.5	0.9	3.1	1.7				
	Fresno	127.2	75.1	24.6	58.5				
	Nelson	66.8	12.3	39.1	38.7				
a. 11	HUDSON BA								
St. Mary's	Lake Sherburne	64.3	33.3	35.2	21.9				
	YELLOWSTON	æ							
Stillwater	Mystic Lake	21.0	1.4	4.4	7.3				
Clark's Fork	Cooney	27.4		17.1	14.6				
Tongue	Tongue River	68.0		15.2	34.4				
Bighorn	Bighorn Lake	1,356.0	854.9	839.0	590.4				



Mountain streams will soon be opening up in preparation for spring runoff.